COMPLETE LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (original) A process for manufacturing a coloured polyethylene terephthalate container or container preform comprising providing a moulded polyethylene terephthalate container or container preform, providing a colouration zone containing as a solution or dispersion in a liquid medium one or more colourants having a chemical affinity for polyethylene terephthalate, and in the colouration zone contacting the container or container preform with the one or more colourants in the liquid medium for a period of time and under conditions effective to cause at least a portion of the one or more colourants to migrate from the liquid medium and bind to the polyethylene terephthalate of the container or container preform.
- 2.. (original) A process according to claim 1 which comprises providing a polyethylene terephthalate moulding composition and subjecting said polyethylene terephthalate moulding composition to a moulding step thereby to form the container or container preform.
- 3. (currently amended) A process according to claim 1 or claim 2 wherein the one or more colourants comprises a disperse dye.

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4. (original) A process for manufacturing a polyethylene terephthalate container

or container preform having additive-imparted functionality comprising providing a

moulded polyethylene terephthalate article, providing an additive impartation zone

containing as a solution or dispersion in a liquid medium one or more additives

having a chemical affinity for polyethylene terephthalate, and in the additive

impartation zone contacting the container or container preform with the one or

more additives in the liquid medium for a period of time and under conditions

effective to cause at least a portion of the one or more additives to migrate from the

liquid medium and bind to the container or container preform.

5. (original) A process according to claim 4 wherein the one or more additives

is selected from the group comprising UV filters, oxygen absorbers, antimicrobial

agents, antioxidants, light stabilizers, optical brighteners, processing stabilizers,

flame retardants and mixtures of two or more thereof.

6. (currently amended) A process according to any one of claims 1 to 6 wherein

the effective conditions comprise a temperature of at least about 40 ° C.

(original) A process according to claim 6 wherein the effective conditions

comprise a temperature of at least about 60 $^{\circ}$ C.

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8. (original) A process according to any one of claims 1 to 6 wherein the container or container preform is a bottle or bottle preform.

- 9. (original) A method of making a blow moulded bottle from a polyethylene terephthalate moulding composition which comprises:
- i. providing a polyethylene terephthalate moulding composition;
- ii. heating the polyethylene terephthalate moulding composition;
- iii. extruding the hot polyethylene terephthalate moulding composition so as to form a bottle preform;
- iv. contacting the bottle preform with a colourant having a chemical affinity for polyethylene terephthalate for a period of time and under conditions effective to cause binding of the colourant to the polyethylene terephthalate; and
- v. blow moulding the bottle preform at a blow moulding temperature so as to form a coloured bottle.
- 10. (original) A method of making a blow moulded bottle from a polyethylene terephthalate moulding composition which comprises:
- a. providing a polyethylene terephthalate moulding composition;
- b. heating the polyethylene terephthalate moulding composition;
- c. extruding the hot polyethylene terephthalate moulding composition so as to form a bottle preform;
- d. blow moulding the bottle perform at a blow moulding temperature so as to

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form a bottle;

e. contacting the bottle with a colourant having chemical affinity for

polyethylene terephthalate for a period of time and under conditions

effective to cause binding of the colourant with the polyethylene

terephthalate.

11. (original) A method of making a blow moulded bottle from a polyethylene

terephthalate moulding composition which comprises:

I. providing a polyethylene terephthalate moulding composition;

II. heating the polyethylene terephthalate moulding composition;

III. extruding the hot polyethylene terephthalate moulding composition so as to

form a bottle preform;

IV. contacting the bottle preform with an additive having a chemical affinity for

polyethylene terephthalate for a period of time and under conditions effective

to cause binding of the additive colourant to the polyethylene terephthalate;

and

V. blow moulding the bottle preform at a blow moulding temperature so as to

form a bottle with a desirable functionality attributable to the bound

additive.

12. (original) A method of making a blow moulded bottle from a polyethylene

terephthalate moulding composition which comprises:

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A. providing a polyethylene terephthalate moulding composition;

- B. heating the polyethylene terephthalate moulding composition;
- C. extruding the hot polyethylene terephthalate moulding composition so as to form a bottle perform;
- D. blow moulding the bottle preform at a blow moulding temperature so as to form a bottle;
- E. contacting the bottle with an additive having chemical affinity for polyethylene terephthalate for a period of time and under conditions effective to cause binding of the additive with the polyethylene terephthalate.
- 13. (currently amended) A process according to any one of claims 1 to 12-wherein the colourant or additive is targetted to a specific region of the container or container preform by regionselective contacting of the container or container preform with the colourant or additive.
- 14. (currently amended) A process according to any one of claims 1 to 13 wherein the amount of colourant or additive bound to the container or container preform can be controlled by controlling the duration of contact of the container or container preform with the colourant or additive.
- 15. (currently amended) A process according to any one of claims 1 to 14-wherein the amount of colourant or additive bound to the container or container preform can

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be controlled by controlling the concentration of colourant or additive in the

solution/dispersion.

16. (currently amended) A process according to any one of claims 1 to 15 wherein

the container or container preform requires no chemical pre-treatment prior to

contacting the colourant or additive in order to provided effective binding

therebetween.

17. (currently amended) A process according to any one of claims 1 to 16-wherein

a first contact between the container or container preform and a colourant or

additive is followed by a drying step and then a further contact between the

container or container preform and different colourant or additive.

18. (currently amended) An article produced by a process according to any one of

claims 1 to 17.

19. (original) A moulded polyethylene terephthalate article according to claim 18

having an inside surface and an outside surface and a colourant or additive having

a chemical affinity to polyethylene terephthalate bound predominantly to one, but

not the other, of said surfaces.

20. (currently amended) A container or container preform according to claim 18

or claim-19 wherein the colourant or additive is bound below the surface of the

container or container preform as a result of migration from a surface point of

contact into the material of the polyethylene terephthalate container or container

preform.

21. (new) A process according to claim 4 wherein the colourant or additive is

targetted to a specific region of the container or container preform by regioselective

contacting of the container or container preform with the colourant or additive.

22. (new) A process according to claim 9 wherein the colourant or additive is

targetted to a specific region of the container or container preform by regioselective

contacting of the container or container preform with the colourant or additive.

23. (new) A process according to claim 10 wherein the colourant or additive is

targetted to a specific region of the container or container preform by regioselective

contacting of the container or container preform with the colourant or additive.

24. (new) A process according to claim 11 wherein the colourant or additive is

targetted to a specific region of the container or container preform by regioselective

contacting of the container or container preform with the colourant or additive.

25. (new) A process according to claim 12 wherein the colourant or additive is

targetted to a specific region of the container or container preform by regioselective

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contacting of the container or container preform with the colourant or additive.

26. (new) A process according to claim 4 wherein the amount of colourant or

additive bound to the container or container preform can be controlled by controlling

the duration of contact of the container or container preform with the colourant or

additive.

27. (new) A process according to claim 9 wherein the amount of colourant or

additive bound to the container or container preform can be controlled by

controlling the duration of contact of the container or container preform with the

colourant or additive.

28. (new) A process according to claim 10 wherein the amount of colourant or

additive bound to the container or container preform can be controlled by

controlling the duration of contact of the container or container preform with the

colourant or additive.

29. (new) A process according to claim 11 wherein the amount of colourant or

additive bound to the container or container preform can be controlled by

controlling the duration of contact of the container or container preform with the

colourant or additive.

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30. (new) A process according to claim 12 wherein the amount of colourant or

additive bound to the container or container preform can be controlled by

controlling the duration of contact of the container or container preform with the

colourant or additive.

31. (new) A process according to claim 4 wherein the amount of colourant or

additive bound to the container or container preform can be controlled by controlling

the concentration of colourant or additive in the solution/dispersion.

32. (new) A process according to claim 9 wherein the amount of colourant or

additive bound to the container or container preform can be controlled by

controlling the concentration of colourant or additive in the solution/dispersion.

33. (new) A process according to claim 10 wherein the amount of colourant or

additive bound to the container or container preform can be controlled by

controlling the concentration of colourant or additive in the solution/dispersion.

34. (new) A process according to claim 11 wherein the amount of colourant or

additive bound to the container or container preform can be controlled by

controlling the concentration of colourant or additive in the solution/dispersion.

35. (new) A process according to claim 12 wherein the amount of colourant or

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additive bound to the container or container preform can be controlled by

controlling the concentration of colourant or additive in the solution/dispersion.

36. (new) A process according to claim 4 wherein the container or container

preform requires no chemical pre-treatment prior to contacting the colourant or

additive in order to provided effective binding therebetween.

37. (new) A process according to claim 9 wherein the container or container

preform requires no chemical pre-treatment prior to contacting the colourant or

additive in order to provided effective binding therebetween.

38. (new) A process according to claim 10 wherein the container or container

preform requires no chemical pre-treatment prior to contacting the colourant or

additive in order to provided effective binding therebetween.

39. (new) A process according to claim 11 wherein the container or container

preform requires no chemical pre-treatment prior to contacting the colourant or

additive in order to provided effective binding therebetween.

40. (new) A process according to claim 12 wherein the container or container

preform requires no chemical pre-treatment prior to contacting the colourant or

additive in order to provided effective binding therebetween.

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41. (new) A process according to claim 4 wherein a first contact between the

container or container preform and a colourant or additive is followed by a drying step

and then a further contact between the container or container preform and different

colourant or additive.

42. (new) A process according to claim 9 wherein a first contact between the

container or container preform and a colourant or additive is followed by a drying

step and then a further contact between the container or container preform and

different colourant or additive.

43. (new) A process according to claim 10 wherein a first contact between the

container or container preform and a colourant or additive is followed by a drying

step and then a further contact between the container or container preform and

different colourant or additive.

44. (new) A process according to claim 11 wherein a first contact between the

container or container preform and a colourant or additive is followed by a drying

step and then a further contact between the container or container preform and

different colourant or additive.

45. (new) A process according to claim 12 wherein a first contact between the

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container or container preform and a colourant or additive is followed by a drying

step and then a further contact between the container or container preform and

different colourant or additive.

46. (new) An article produced by a process according to claim 4.

47. (new) A moulded polyethylene terephthalate article according to claim 46

having an inside surface and an outside surface and a colourant or additive having

a chemical affinity to polyethylene terephthalate bound predominantly to one, but

not the other, of said surfaces.

48. (new) An article produced by a process according to claim 9.

49. (new) A moulded polyethylene terephthalate article according to claim 48

having an inside surface and an outside surface and a colourant or additive having

a chemical affinity to polyethylene terephthalate bound predominantly to one, but

not the other, of said surfaces.

50. (new) An article produced by a process according to claim 10.

51. (new) A moulded polyethylene terephthalate article according to claim 50

having an inside surface and an outside surface and a colourant or additive having

a chemical affinity to polyethylene terephthalate bound predominantly to one, but

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not the other, of said surfaces.

52. (new) An article produced by a process according to claim 11.

53. (new) A moulded polyethylene terephthalate article according to claim 52

having an inside surface and an outside surface and a colourant or additive having

a chemical affinity to polyethylene terephthalate bound predominantly to one, but

not the other, of said surfaces.

54. (new) An article produced by a process according to claim 12.

55. (new) A moulded polyethylene terephthalate article according to claim 54

having an inside surface and an outside surface and a colourant or additive having

a chemical affinity to polyethylene terephthalate bound predominantly to one, but

not the other, of said surfaces.

REMARKS

The PCT Request was filed with 20 claims. This Preliminary Amendment has

amended Claims 3, 6, 13-18, and 20. New Claims 21-55 have been added. Therefore,

45 claims are pending in the Application.